

0590
0606

7



OIPE

RAW SEQUENCE LISTING

DATE: 06/05/2002

PATENT APPLICATION: US/10/057,890A

TIME: 09:49:58

Input Set : A:\PTO.PG.txt

Output Set: N:\CRF3\06052002\J057890A.raw

ENTERED

2 <110> APPLICANT: Coleman, Timothy
 3 Mansfield, Brian
 5 <120> TITLE OF INVENTION: Scaffold Fusion Polypeptides, Composition for Making the
 Same, and Methods
 6 of Using the Same.
 8 <130> FILE REFERENCE: PF537
 10 <140> CURRENT APPLICATION NUMBER: us/10/057,890A
 11 <141> CURRENT FILING DATE: 2002-01-29
 13 <150> PRIOR APPLICATION NUMBER: 60/265,782
 14 <151> PRIOR FILING DATE: 2001-01-31
 16 <150> PRIOR APPLICATION NUMBER: 60/265,858
 17 <151> PRIOR FILING DATE: 2001-01-31
 19 <160> NUMBER OF SEQ ID NOS: 32
 21 <210> SEQ ID NO: 1
 22 <211> LENGTH: 8
 23 <212> TYPE: PRT
 24 <213> ORGANISM: Homo sapiens
 26 <400> SEQUENCE: 1
 27 Glu Phe Leu Ile Val Ile Lys Ser
 28 1 5
 30 <210> SEQ ID NO: 2
 31 <211> LENGTH: 27
 32 <212> TYPE: PRT
 33 <213> ORGANISM: Homo sapiens
 35 <220> FEATURE:
 36 <221> NAME/KEY: MISC_FEATURE
 37 <222> LOCATION: (1)..(1)
 38 <223> OTHER INFORMATION: Xaa equals either the naturally occurring L-amino acid Phe or
 Tyr
 40 <220> FEATURE:
 41 <221> NAME/KEY: MISC_FEATURE
 42 <222> LOCATION: (2)..(2)
 43 <223> OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
 45 <220> FEATURE:
 46 <221> NAME/KEY: MISC_FEATURE
 47 <222> LOCATION: (4)..(7)
 48 <223> OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids, one
 or two
 49 residues may be missing
 51 <220> FEATURE:
 52 <221> NAME/KEY: MISC_FEATURE
 53 <222> LOCATION: (9)..(9)
 54 <223> OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
 56 <220> FEATURE:

57 <221> NAME/KEY: MISC_FEATURE
58 <222> LOCATION: (10)..(10)

RAW SEQUENCE LISTING

DATE: 06/05/2002

PATENT APPLICATION: US/10/057,890A

TIME: 09:49:58

Input Set : A:\PTO.PG.txt

Output Set: N:\CRF3\06052002\J057890A.raw

```

59 <223> OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
61 <220> FEATURE:
62 <221> NAME/KEY: MISC_FEATURE
63 <222> LOCATION: (11)..(11)
64 <223> OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
66 <220> FEATURE:
67 <221> NAME/KEY: MISC_FEATURE
68 <222> LOCATION: (13)..(13)
69 <223> OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
71 <220> FEATURE:
72 <221> NAME/KEY: MISC_FEATURE
73 <222> LOCATION: (14)..(14)
74 <223> OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
76 <220> FEATURE:
77 <221> NAME/KEY: MISC_FEATURE
78 <222> LOCATION: (15)..(15)
79 <223> OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
81 <220> FEATURE:
82 <221> NAME/KEY: MISC_FEATURE
83 <222> LOCATION: (16)..(16)
84 <223> OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
86 <220> FEATURE:
87 <221> NAME/KEY: MISC_FEATURE
88 <222> LOCATION: (17)..(17)
89 <223> OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
91 <220> FEATURE:
92 <221> NAME/KEY: MISC_FEATURE
93 <222> LOCATION: (19)..(19)
94 <223> OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
96 <220> FEATURE:
97 <221> NAME/KEY: MISC_FEATURE
98 <222> LOCATION: (20)..(20)
99 <223> OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
101 <220> FEATURE:
102 <221> NAME/KEY: MISC_FEATURE
103 <222> LOCATION: (22)..(26)
104 <223> OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids, one
or two
105     residues may be missing.
108 <400>/SEQUENCE: 2
W--> 109 Xaa Xaa Cys Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Phe Xaa Xaa Xaa Xaa Xaa Leu
110     1             5             10             15
W--> 111 Xaa Xaa His Xaa Xaa Xaa Xaa Xaa His
112     20             25
114 <210> SEQ ID NO: 3
115 <211> LENGTH: 10
116 <212> TYPE: PRT
117 <213> ORGANISM: Homo sapiens
119 <220> FEATURE:
120 <221> NAME/KEY: MISC_FEATURE

```

RAW SEQUENCE LISTING

DATE: 06/05/2002

PATENT APPLICATION: US/10/057,890A

TIME: 09:49:58

Input Set : A:\PTO.PG.txt

Output Set: N:\CRF3\06052002\J057890A.raw

```

121 <222> LOCATION: (5)..(5)
122 <223> OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids, one
or two
123     residues may be missing
125 <400> SEQUENCE: 3
W--> 126 Cys Pro Glu Cys Xaa His Gln Arg Thr His
127     1             5             10
129 <210> SEQ ID NO: 4
130 <211> LENGTH: 8
131 <212> TYPE: PRT
132 <213> ORGANISM: Homo sapiens
134 <220> FEATURE:
135 <221> NAME/KEY: MISC_FEATURE
136 <222> LOCATION: (1)..(1)
137 <223> OTHER INFORMATION: Xaa equals either the naturally occurring L-amino acid Phe
or Tyr
139 <220> FEATURE:
140 <221> NAME/KEY: MISC_FEATURE
141 <222> LOCATION: (2)..(2)
142 <223> OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
144 <220> FEATURE:
145 <221> NAME/KEY: MISC_FEATURE
146 <222> LOCATION: (4)..(7)
147 <223> OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids, one
or two
148     residues may be missing
150 <400> SEQUENCE: 4
W--> 151 Xaa Xaa Cys Xaa Xaa Xaa Xaa Cys
152     1             5
154 <210> SEQ ID NO: 5
155 <211> LENGTH: 7
156 <212> TYPE: PRT
157 <213> ORGANISM: Homo sapiens
159 <220> FEATURE:
160 <221> NAME/KEY: MISC_FEATURE
161 <222> LOCATION: (2)..(6)
162 <223> OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids, one
or two
163     residues may be missing
165 <400> SEQUENCE: 5
W--> 166 His Xaa Xaa Xaa Xaa Xaa His
167     1             5
169 <210> SEQ ID NO: 6
170 <211> LENGTH: 6
171 <212> TYPE: PRT
172 <213> ORGANISM: Homo sapiens
174 <400> SEQUENCE: 6
175 Tyr Lys Cys Gly Leu Cys
176     1             5
178 <210> SEQ ID NO: 7
179 <211> LENGTH: 5
180 <212> TYPE: PRT
181 <213> ORGANISM: Homo sapiens

```

RAW SEQUENCE LISTING

DATE: 06/05/2002

PATENT APPLICATION: US/10/057,890A

TIME: 09:49:58

Input Set : A:\PTO.PG.txt

Output Set: N:\CRF3\06052002\J057890A.raw

```

183 <400> SEQUENCE: 7
184 His Gln Arg Val His
185   1           5
187 <210> SEQ ID NO: 8
188 <211> LENGTH: 7
189 <212> TYPE: PRT
190 <213> ORGANISM: Homo sapiens
192 <400> SEQUENCE: 8
193 Thr Gly Glu Lys Pro Tyr Lys
194   1           5
197 <210> SEQ ID NO: 9
198 <211> LENGTH: 209
199 <212> TYPE: PRT
200 <213> ORGANISM: Homo sapiens
202 <400> SEQUENCE: 9
203 Met Asp Tyr Val Ser Ser Tyr Asp Asn Tyr Tyr Thr Ser Cys Lys Asn
204   1           5           10           15
206 Val Lys Ala Ala Arg Tyr Ser Val Gly Val Gly Asn Met Val Asn Cys
207           20           25           30
209 Lys Arg Lys Ser Met Thr Asp Tyr Asn Ala Ser Asp Thr Val Trp Ala
210           35           40           45
212 His Tyr Ala Ala Ala Trp Asp Gly Asn Thr Met Cys Thr Gly Tyr Gly
213           50           55           60
215 Ser Gly Thr Asp Arg Tyr Ala Val Val His Ala Val Ala Lys Ala Arg
216   65           70           75           80
218 Thr Val Thr Gly Val Val Thr Ser Val Thr Trp Val Val Ala Val Ala
219           85           90           95
221 Ser Gly Thr Arg Ser Lys Gly His Tyr Thr Cys Ser Ser His Tyr Ser
222           100          105          110
224 Tyr Trp Lys Asn Thr Lys Val Gly Val Val Met Val Cys Tyr Ser Gly
225           115          120          125
227 Lys Thr Arg Cys Arg Asn Lys Lys Arg His Arg Ala Val Arg Thr Met
228   130          135          140
230 Val Tyr Trp Ala Tyr Asn Val Asn Thr Gly Asn Asn Cys Ser Ser Ser
231  145          150          155          160
233 Asn Arg Asp Ala Met Val Thr Thr Gly Met Thr His Cys Cys Asn Tyr
234           165          170          175
236 Ala Val Gly Lys Arg Asn Tyr Val Lys His Ala Lys Arg Cys Lys Cys
237           180          185          190
239 Cys Ser Ala Arg Ala Ser Ser Val Tyr Thr Arg Ser Thr Gly Ser Val
240           195          200          205
242 Gly
245 <210> SEQ ID NO: 10
246 <211> LENGTH: 138
247 <212> TYPE: PRT
248 <213> ORGANISM: Homo sapiens
250 <400> SEQUENCE: 10
251 Met Asp Tyr Gln Val Ser Ser Pro Ile Tyr Asp Ile Asn Tyr Tyr Thr
252   1           5           10           15

```

RAW SEQUENCE LISTING

DATE: 06/05/2002

PATENT APPLICATION: US/10/057,890A

TIME: 09:49:58

Input Set : A:\PTO.PG.txt

Output Set: N:\CRF3\06052002\J057890A.raw

```

254 Ser Glu Pro Cys Gln Lys Ile Asn Val Lys Gln Ile Ala Ala Tyr Lys
255           20                25                30
257 Cys Gly Leu Cys Ala Ala Ala Gln Trp Asp Phe Gly Asn Thr Met Cys
258           35                40                45
260 Gln His Gln Arg Val His Gly His His His His Ser Tyr Lys Cys Gly
261           50                55                60
263 Leu Cys Thr Arg Ser Gln Lys Glu Gly Leu His Tyr Thr Cys Ser Ser
264           65                70                75                80
266 His Phe Pro Tyr Ser Gln Tyr Gln Phe Trp Lys Asn Phe Gln Thr Leu
267           85                90                95
269 Lys Ile His Gln Arg Val His Gly Gly Gly Gly Ser Tyr Lys Cys Gly
270           100               105               110
272 Leu Cys Gln Glu Phe Phe Gly Leu Asn Asn Cys Ser Ser Ser Asn Arg
273           115               120               125
275 Leu Asp Gly His Gln Arg Val His Ala Ala
276           130               135
278 <210> SEQ ID NO: 11
279 <211> LENGTH: 30
280 <212> TYPE: PRT
281 <213> ORGANISM: Homo sapiens
283 <400> SEQUENCE: 11
284 Met Asp Tyr Gln Val Ser Ser Pro Ile Tyr Asp Ile Asn Tyr Tyr Thr
285   1           5                10                15
287 Ser Glu Pro Cys Gln Lys Ile Asn Val Lys Gln Ile Ala Ala
288           20                25                30
290 <210> SEQ ID NO: 12
291 <211> LENGTH: 13
292 <212> TYPE: PRT
293 <213> ORGANISM: Homo sapiens
295 <400> SEQUENCE: 12
296 Ala Ala Ala Gln Trp Asp Phe Gly Asn Thr Met Cys Gln
297   1           5                10
299 <210> SEQ ID NO: 13
300 <211> LENGTH: 32
301 <212> TYPE: PRT
302 <213> ORGANISM: Homo sapiens
304 <400> SEQUENCE: 13
305 Thr Arg Ser Gln Lys Glu Gly Leu His Tyr Thr Cys Ser Ser His Phe
306   1           5                10                15
308 Pro Tyr Ser Gln Tyr Gln Phe Trp Lys Asn Phe Gln Thr Leu Lys Ile
309           20                25                30
311 <210> SEQ ID NO: 14
312 <211> LENGTH: 17
313 <212> TYPE: PRT
314 <213> ORGANISM: Homo sapiens
316 <400> SEQUENCE: 14
317 Gln Glu Phe Phe Gly Leu Asn Asn Cys Ser Ser Ser Asn Arg Leu Asp
318   1           5                10                15
320 Gly

```

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/057,890A

DATE: 06/05/2002
TIME: 09:49:59

Input Set : A:\PTO.PG.txt
Output Set: N:\CRF3\06052002\J057890A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:2; Xaa Pos. 1,2,4,5,6,7,9,10,11,13,14,15,16,17,19,20,22,23,24,25,26

Seq#:3; Xaa Pos. 5

Seq#:4; Xaa Pos. 1,2,4,5,6,7

Seq#:5; Xaa Pos. 2,3,4,5,6

Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:1; Line(s) 5